

**II B.Tech I Semester Supplementary Examinations, November 2006**  
**MACHINE DRAWING**  
**( Common to Mechanical Engineering, Mechatronics, Production Engineering**  
**and Aeronautical Engineering)**

Time: 3 hours

Max Marks: 80

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1. Answer any TWO of the following by drawing proportional diagrams. Draw sectional front view and side view. [15×2=30]
  - (a) Universal coupling to connect two shafts of diameter 65mm.
  - (b) Double strap butt joint to connect 15mm thick plates.
  - (c) Socket and spigot joint to connect shafts of diameter 25mm.
  - (d) Expansion Joint for a pipe of diameter 100mm.
2. Details of a foot step bearing were given in figure 1. Draw the following views with all parts assembled. [50]
  - (a) Sectional front view
  - (b) Top view
  - (c) Side view.

Part details:

S.No.	Name	Material	Quantity
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1.	Base	C.I	1
2.	Thrust bearing	Alloy steel	1
3.	Space	CI	1
4.	Ball bearing	Alloy steel	1
5.	Shaft	MS	1
6.	Cover	C2	1

Assume appropriate sizes of bearings and show them in the final assembly drawing.

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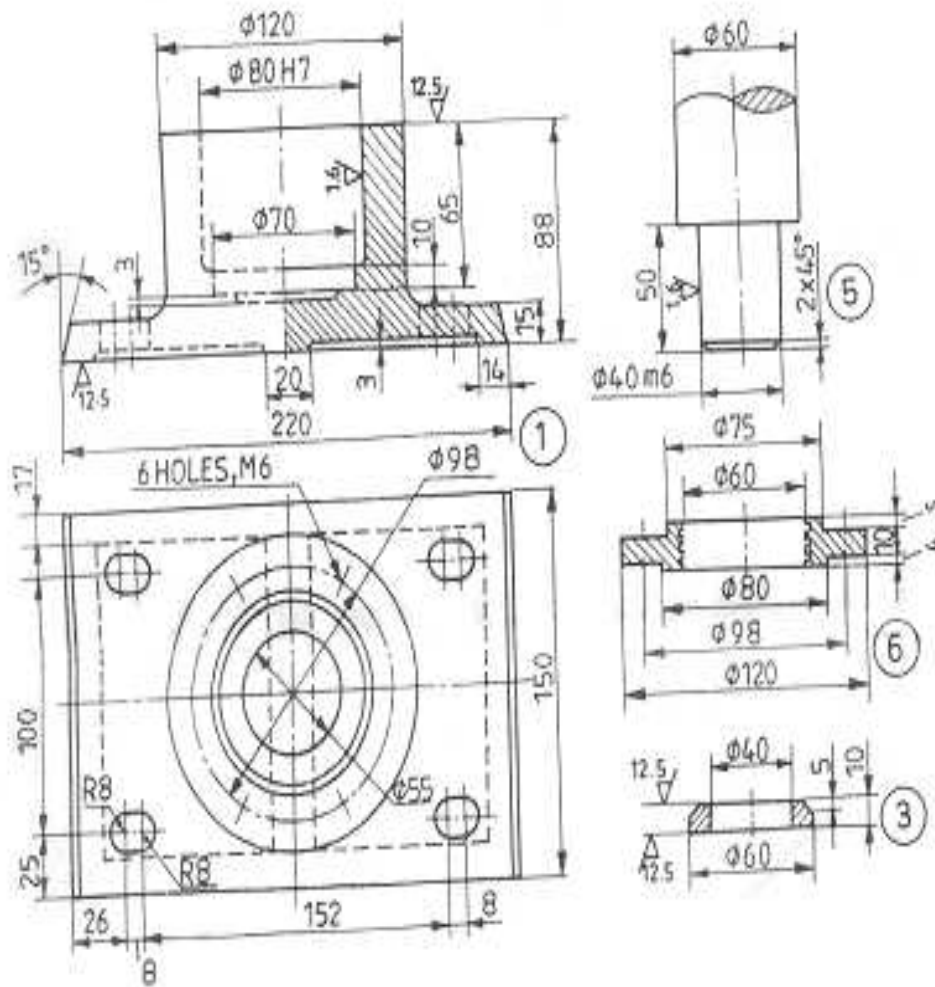


Figure 1: